



THE OBSERVER'S CHOICE

**GONIOLIGHT**

**DIGITAL OBSERVATION STATION**



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## DIGITAL OBSERVATION STATION

### The observer's choice

Vectronix specialises in solutions for observation and target acquisition, from the lightweight handheld VECTOR rangefinder binoculars to the tripod-mounted Digital Observation Station for high accuracy and increased functionality. The heart of these Digital Observation Station is the digital goniometer GonioLight which can be fitted with the customer's choice of laser rangefinder and night vision device. The GonioLight acts as the human-machine interface and communicates with the payloads and peripheral devices such as a GPS receiver and command and control system. It's application software provides, operator prompts, data management and data display. Today, more than 2,000 systems are fielded in more than 19 countries.

### High precision targeting and locating system

Depending on the system configuration, GonioLight provides Az and V accuracy up to 1 mil. Regardless of weather and visibility conditions, autonomous orientation can be achieved using the built-in Digital Magnetic Compass (5 mil) or the north finding gyroscope (1 mil). Az accuracies of 1 mil can also be achieved with alternative methods using the embedded survey routines on reference points or celestial bodies (ASTRO).

### Interfaces

- + Flexible communication
- + Interfaces for PC, FCC or external devices

### Illuminated Human Machine Interface

- + Simple operability
- + Logical layout of keys

### Auxiliary scales

- + Determination of direction and vertical angle even if electronics are damaged or power supply is down

### Modularity for multi-mission scenarios

GonioLight's modular concept allows applications in a variety of mission scenarios and is designed for the use with various payloads. The payload interchangeability provides maximum flexibility and allows the user to adapt the systems to their specific needs. Typical applications are observation and target acquisition (dismounted and static) and gun laying for mortars, howitzers and rocket artillery (MLRS). There are four standard versions available:

Customized solutions utilizing other rangefinder, thermal imagers, or multi-functional devices are possible.

### Non-magnetic north finding

- + Thanks to the integrated gyroscope, the GonioLight based systems (GL G-V, GL G-TI) provide 24/7 true north capabilities in virtually any environment and all weather conditions.

### Up to 7 days mission capability

- + Thanks to the optional available external system power supply all system components can be powered for up to 7 days from a single battery, dependent on the actual system configuration.



#### GonioLight V

The basic GonioLight V system comes complete with a VECTOR Rangefinding Binocular. Accurate, reliable, and cost effective, the GonioLight V modular system can easily integrate with your existing equipment or be upgraded with night vision or thermal imaging.

#### GonioLight G-V

The GonioLight G-V system – with its improved accuracy thanks to the added gyroscope – ensures the highest TLE accuracy. Highly accurate and flexible, the GonioLight G-V modular system works with your existing equipment or can also be upgraded with night vision or thermal imaging.

#### GonioLight TI

Operate in any condition with the GonioLight TI. Thanks to the system's thermal imager, your forward observers can penetrate total darkness, and even see through the densest sandstorms. Make the environmental obstacle a tactical advantage.

#### GonioLight G-TI

The ultimate system for the detection, recognition, identification and acquisition of targets. The GonioLight G-TI provides 1 mil accuracy and can operate day or night – in even the harshest of environmental conditions.



Find more information under  
[www.vectronix.ch](http://www.vectronix.ch)

## TECHNICAL DATA

Observe	GonioLight V	GonioLight G-V	GonioLight TI	GonioLight G-TI
<b>Day Observation</b>	Yes	Yes	Yes	Yes
View	Binocular	Binocular	Binocular <sup>3)</sup>	Binocular <sup>3)</sup>
Magnification	7 x	7 x	7 x <sup>3)</sup>	7 x <sup>3)</sup>
Field of View	120mil	120mil	120mil <sup>3)</sup>	120mil <sup>3)</sup>
Optical Aperture	42 mm	42 mm	42 mm <sup>3)</sup>	42 mm <sup>3)</sup>
<b>Night Observation</b>	Image Intensification with Vector Nite <sup>1)</sup>	Image Intensification with Vector Nite <sup>1)</sup>	Thermal Imaging	Thermal Imaging
View	Monocular <sup>1)</sup>	Monocular <sup>1)</sup>	Bi-ocular LCD	Bi-ocular LCD
Magnification	4.5 x <sup>1)</sup>	4.5 x <sup>1)</sup>	3 x/9 x	3 x/9 x
Field of View	125 mil <sup>1)</sup>	125 mil <sup>1)</sup>	160/53 mil	160/53 mil
<b>Measure / Locate</b>				
Range/Distance Capability	12/25 km	12/25 km	10/25 km <sup>3)</sup>	10/25 km <sup>3)</sup>
Range Accuracy	5 m (1 $\sigma$ )	5 m (1 $\sigma$ )	5 m (1 $\sigma$ )	5 m (1 $\sigma$ )
Invisible to Image Intensifiers	Yes	Yes	Yes	Yes
Orientation/Horizontal Accuracy	5 mil <sup>2)</sup> / 1 mil (1 $\sigma$ )	1 mil (1 $\sigma$ )	5 mil <sup>2)</sup> (1 $\sigma$ )	1 mil (1 $\sigma$ )
Elevation Range	-450/+700 mil	-450/+700 mil	-450/+700 mil	-450/+700 mil
Cable Interface	Yes	Yes	Yes	Yes
GPS	Internal/External <sup>1)</sup>	Internal/External <sup>1)</sup>	Internal/External <sup>1)</sup>	Internal/External <sup>1)</sup>
Target Grid Coordinates	Yes	Yes	Yes	Yes
<b>Physical Characteristics</b>				
Dimensions GonioLight (L x W x H)	198 x 330 x 144 mm	198 x 330 x 153 mm	198 x 330 x 144 mm	198 x 330 x 153 mm
Weight complete DOS GonioLight <sup>4)</sup>	< 7.7 kg	< 16.0 kg	< 9.0 kg	< 19.8 kg

1) optional

2) with DMC

3) in dual payload configuration with VECTOR 23 and JIM LR

4) depending on actual system configuration

For further specifications please refer to the product technical data sheet.



## ACCESSORIES



### Transport case

The hard shell transport case ensures protection of the product - the ideal solution for logistics and storage. Additional field pouches and back packs are available.



### External power supply

Increase mission capability by using external power supply with high capacity BB2590/U or compatible batteries.



### External GPS

Improve your own position coordinates by using external military GPS devices like DAGR.

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